



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

### Blue Ridge Regional Office

[www.deq.virginia.gov](http://www.deq.virginia.gov)

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## Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300, of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: James Hardie Building Products, Inc  
Facility Name: James Hardie Building Products, Inc – Pulaski Plant  
Facility Location: 1000 James Hardie Way  
Pulaski, VA 24301  
Registration Number: 21446  
Permit Number: BRRO21446

This permit includes the following programs:

### Federally Enforceable Requirements - Clean Air Act (Pages 10 through 38)

Permit Effective Date: February 20, 2015  
Permit Expiration Date: February 19, 2020

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Robert J. Weld  
Regional Director

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## **Facility Information**

### **Permittee**

James Hardie Building Products, Inc  
1000 James Hardie Way  
Pulaski, VA 24301

### **Responsible Official**

Tom Kurowski  
Director of Manufacturing – North Division

### **Facility**

James Hardie Building Products, Inc – Pulaski Plant  
1000 James Hardie Way  
Pulaski, VA 24301

### **Contact Person**

Jody Lambert  
Environmental Specialist  
(540) 423-7971

**County-Plant Identification Number:** 51-155-00067

**Facility Description:** NAICS 327390 – The facility manufactures cement fiber board.

## Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Permit Document Date
<b>Fuel Burning Equipment</b>							
B-1	S-4	Cleaver Brooks Model CBLE 700-800-200ST Natural Gas Fired Boiler – NSPS Dc	33.5 MMBtu/hr				8/15/13
B-2	S-5	Cleaver Brooks Model CBLE 700-800-200ST Natural Gas Fired Boiler – NSPS Dc	33.5 MMBtu/hr				8/15/13
B-3	S-6	Cleaver Brooks Model CBLE 700-800-200ST Natural Gas Fired Boiler – NSPS Dc	33.5 MMBtu/hr				8/15/13
<b>Raw Material Handling (RMH-1) which includes the following processes and equipment:</b>							
RMC-001	S-1	cement silo	50 tons/hr	Fabric filter	BH-1	Particulates	8/15/13
RMC-101		Line 1 cement day bin	25 tons/hr	Fabric filter	FS-1	Particulates	8/15/13
RMC-102		Line 1 cement batch vessel	25 tons/hr	Bin vent filter	HFC-1	Particulates	8/15/13
RMC-201		Line 2 cement day bin	25 tons/hr	Fabric filter	FS-2	Particulates	8/15/13
RMC-202		Line 2 cement batch vessel	25 tons/hr	Bin vent filter	HFC-2	Particulates	8/15/13
RMC-301		COSMOS cement	10 tons/hr	Fabric filter	FS-3	Particulates	8/15/13

		day bin					
RMC-302		COSMOS cement batch vessel	8 tons/hr	Bin vent filter	HFC-3	Particulates	8/15/13
RMA1-001	S-2	Additive 1 silo	50 tons/hr	Fabric filter	BH-2	Particulates	8/15/13
RMA1-101		Line 1 Additive 1 day bin	4 tons/hr	Fabric filter	FS-4	Particulates	8/15/13
RMA1-102		Line 1 Additive 1 batch vessel	2.9 tons/hr	Bin vent filter	HFC-4	Particulates	8/15/13
RMA1-201		Line 2 Additive 1 batch vessel	2.9 tons/hr	Bin vent filter	HFC-5	Particulates	8/15/13
RMA2-002	S-3	Additive 2 silo and PIG	50 tons/hr	Fabric filter	BH-3	Particulates	8/15/13
RMA2-101		Line 1 Additive 2 day bin	8 tons/hr	Fabric filter	FS-5	Particulates	8/15/13
RMA2-102		Line 1 Additive 2 batch vessel	7.65 tons/hr	Bin vent filter	HFC-6	Particulates	8/15/13
RMA2-201		Line 2 Additive 2 day bin	8 tons/hr	Fabric filter	FS-6	Particulates	8/15/13
RMA2-202		Line 2 Additive 2 batch vessel	7.65 tons/hr	Bin vent filter	HFC-7	Particulates	8/15/13
RMA3-001		Additive 3 production facility	1,500 gal/batch @ 12 hrs/batch				8/15/13
<b>Silica Sand Handling (RMS-1) which includes the following processes and equipment:</b>							
RMS-001		Silica sand receiving hoppers/vibratory feeders/bucket elevator/conveyor on top of sand silos – NSPS OOO	120 tons/hr				8/15/13
RMS-101		Silica sand Silo No. 1 – NSPS OOO	1,350 tons storage				8/15/13
RMS-102		Silica sand weigh belt feeder No. 1 – NSPS OOO	30 tons/hr				8/15/13
RMS-103		Silica sand ball mill 1 – NSPS	30 tons/hr				8/15/13

		OOO					
RMS-201		Silica sand silo No. 2 – NSPS OOO	1350 tons storage				8/15/13
RMS-202		Silica sand weigh belt feeder No. 2 – NSPS OOO	30 tons/hr				8/15/13
RMS-203		Silica sand ball mill No. 2 – NSPS OOO	30 tons/hr				8/15/13
<b>Production Lines 1 &amp; 2 (PL-1, PL-2) which includes the following processes and equipment:</b>							
PL-101		Line 1 wet pulp processing plant	84 tons/day				8/15/13
PL-102		Line 1 wet mixer	45 tons/hr (dry weight)				8/15/13
PL-103		Line 1 production sheet machine	45 tons/hr (dry weight)				8/15/13
PL-104		Line 1 EPS spray	103 gal/hr				8/15/13
PL-105		Line 1 stacker	45 tons/hr (dry weight)				8/15/13
PL-201		Line 2 wet pulp processing plant	84 tons/day				8/15/13
PL-202		Line 2 wet mixer	45 tons/hr (dry weight)				8/15/13
PL-203		Line 2 production sheet machine	45 tons/hr (dry weight)				8/15/13
PL-204		Line 2 EPS spray	103gal/hr				8/15/13
PL-205		Line 2 stacker	45 tons/hr (dry weight)				8/15/13
PL-SL		IPA (isopropyl alcohol)	450 gal/yr				8/15/13
<b>Finishing Lines 1 &amp; 2 (FL-1, FL-2) which includes the following processes and equipment:</b>							
FL-101	S-7 & S-8	Line 1 destacker	39 tons/hr (of board)				8/15/13
FL-102		Line 1 roll coater	103 gal/hr				8/15/13
FL-103	S-9	Line 1 EP oven	6 MMBtu/hr				8/15/13
FL-104		Line 1 spray	2664 gal/hr				8/15/13

		coater					
FL-105	S-10	Line 1 cure oven	4.5 MMBtu/hr				8/15/13
FL-106	S-11 & S-12	Line 1 stacker	39 tons/hr (of board)				8/15/13
FL-201	S-13	Line 2 destacker	39 tons/hr (of board)				8/15/13
FL-202		Line 2 roll coater	103 gal/hr				8/15/13
FL-203	S-14 & S-15	Line 2 EP oven	6 MMBtu/hr				8/15/13
FL-204		Line 2 spray coater	2664 gal/hr				8/15/13
FL-205	S-16	Line 2 cure oven	4.5 MMBtu/hr				8/15/13
FL-206	S-17 & S-18	Line 2 stacker	39 tons/hr (of board)				8/15/13
<b>Color Plus Lines 1 &amp; 2 (CP-1, CP-2) which includes the following processes and equipment:</b>							
CPL-101		Destacker	15.7 tons/hr (of board)				8/15/13
CPL-102	S-19	One pre-heater	2.0 MMBtu/hr				8/15/13
CPL-103	S-20	Edge coating spray booth	0.6 gal/msf	Dry filter	SB-1	Particulates	8/15/13
CPL-104		Direct roll coater	1.22 gal/msf				8/15/13
CPL-105	S-21	First cure oven	2.0 MMBtu/hr				8/15/13
CPL-107		Curtain coater	1.3 gal/msf				8/15/13
CPL-108	S-22, S-23 & S-24	Final cure oven	5.0 MMBtu/hr				8/15/13
CPL-109		Ink printing	2.5 gal/day ink & 2.5 gal/day solvent				8/15/13
CPL-110		Laminator	15.7 tons/hr (of board)				8/15/13
CPL-111		Fork stacker	15.7 tons/hr (of board)				8/15/13
CPL-201		Destacker	15.7 tons/hr (of board)				8/15/13
CPL-202	S-25	One pre-heater	2.0 MMBtu/hr				8/15/13
CPL-203	S-26	Edge coating spray booth	0.6 gal/msf	Dry filter	SB-2	Particulates	8/15/13
CPL-204		Direct roll coater	1.22 gal/msf				8/15/13

CPL-205	S-27	First cure oven	2.0 MMBtu/hr				8/15/13
CPL-207		Curtain coater	1.3 gal/msf				8/15/13
CPL-208	S-29, S-30 & S-31	Final cure oven	5.0 MMBtu/hr				8/15/13
CPL-209		Ink printing	2.5 gal/day ink & 2.5 gal/day solvent				8/15/13
CPL-210		Laminator	15.7 tons/hr (of board)				8/15/13
CPL-211		Fork stacker	15.7 tons/hr (of board)				8/15/13
<b>Heritage Line (HL-1) which includes the following processes and equipment:</b>							
HL-101	S-32, S-33 & S-34	Vacuum destacker	23,000 sf/hr of board				8/15/13
HL-102	S-35	Wet cutting station	23,000 sf/hr of board				8/15/13
HL-103		Roll coater	62.9 gal/hr (total coatings)				8/15/13
HL-104	S-36 & S-37	4-zone preheater	12.0 MMBtu/hr				8/15/13
HL-105		Roll coater	54.08 gal/hr (coatings)				8/15/13
HL-106	S-38	2-zone first cure oven	77.97 gal/hr (coatings)				8/15/13
HL-107	S-39 & S-40	Spray coater	77.97 gal/hr (coatings)	Dry filter	DF-1	Particulates	8/15/13
HL-108	S-41, S-42 & S-43	6-zone final cure oven	7.02 MMBtu/hr				8/15/13
HL-109		Ink jet printing	0.044 gal/hr				8/15/13
HL-110	S-44	Sawing	23,000 sf/hr of board	Fabric filter	BH-5	Particulates	8/15/13
HL-111		Stacker	23,000 sf/hr of board				8/15/13
<b>Soffit Line (SL-1)</b>							
SL-101	S-45	Vacuum destacker	400 picks/hr				8/15/13
SL-102	S-47	Hydraulic press	1,200 soffits punched/hr	Fabric filter	BH-4	Particulates	8/15/13
SL-103		Fork stacker	n/a				8/15/13



<b>MCT Lines 1 &amp; 2 (MCT- 1, MCT- 2) which includes the following processes and equipment:</b>							
MCT-101		CaCO <sub>3</sub> Silo	1824 lb/hr	Bin vent filter	M-1	Particulates	8/15/13
MCT-102		Polypropylene Bin System 1 (PP1)	730 lb/hr				8/15/13
MCT-103		Polypropylene Bin System 2 (PP2)	730 lb/hr				8/15/13
MCT-104		Lubricant Unloading	24.4 lb/hr				8/15/13
MCT-105		Colorant Unloading	30.4 lb/hr				8/15/13
MCT-106		Non Oriented Billet Grinder Surge Bin	30.4 lb/hr				8/15/13
MCT-107		Billet Regrind Receiving Hopper/Feeder - Line 1	15.2 lb/hr	Fabric filter	M-3	Particulates	8/15/13
MCT-108		PP1 Receiving Hopper/Feeder - Line 1	365.0 lb/hr				8/15/13
MCT-109		PP2 Receiving Hopper/Feeder - Line 1	365.0 lb/hr				8/15/13
MCT-110		Lube Receiving Hopper/Feeder - Line 1	12.2 lb/hr				8/15/13
MCT-111		Colorant Receiving Hopper/Feeder - Line 1	15.2 lb/hr				8/15/13
MCT-112		Profile Regrind Receiving Hopper/Feeder - Line 1	15.2 lb/hr	Fabric filter	M-3	Particulates	8/15/13
MCT-113		CaCO <sub>3</sub> Receiving Hopper/Feeder - Line 1	912.0 lb/hr	Bin vent/fabric filter	M-2	Particulates	8/15/13
MCT-114		Main Extruder -	787.8 lb/hr	Fabric filter	M-3	Particulates	8/15/13

		Line 1					
MCT-115		Side Feed Extruder - Line 1	912.0 lb/hr	Fabric filter	M-3	Particulates	8/15/13
MCT-116		Cooling Tank 1 - Line 1	1699.8 lb/hr				8/15/13
MCT-117		Puller - Line 1	1699.8 lb/hr				8/15/13
MCT-118		Electric Ovens - Line 1	1699.8 lb/hr				8/15/13
MCT-119		Draw Die - Line 1	1699.8 lb/hr				8/15/13
MCT-120		Cooling Tank 2 - Line 1	1699.8 lb/hr				8/15/13
MCT-121		Puller - Line 1	1699.8 lb/hr				8/15/13
MCT-122		Saw - Line 1	1699.8 lb/hr	Fabric filter	M-4	Particulates	8/15/13
MCT-123		Offloader - Line 1	1699.8 lb/hr				8/15/13
MCT-124		Billet Regrind Receiving Hopper/Feeder - Line 2	15.2 lb/hr	Fabric filter		Particulates	8/15/13
MCT-125		PP1 Receiving Hopper/Feeder - Line 2	365.0 lb/hr				8/15/13
MCT-126		PP2 Receiving Hopper/Feeder - Line 2	365.0 lb/hr				8/15/13
MCT-127		Lubricant Receiving Hopper/Feeder - Line 2	12.2 lb/hr				8/15/13
MCT-128		Colorant Receiving Hopper/Feeder - Line 2	15.2 lb/hr				8/15/13
MCT-129		Profile Regrind Receiving Hopper/Feeder - Line 2	15.2 lb/hr	Fabric filter		Particulates	8/15/13
MCT-130		CaCO <sub>3</sub> Receiving Hopper/Feeder - Line 2	912.0 lb/hr	Bin vent/fabric filter		Particulates	8/15/13

MCT-131		Main Extruder - Line 2	787.8 lb/hr	Fabric filter		Particulates	8/15/13
MCT-132		Side Feed Extruder - Line 2	912.0 lb/hr	Fabric filter		Particulates	8/15/13
MCT-133		Cooling Tank 1 - Line 2	1699.8 lb/hr				8/15/13
MCT-134		Puller - Line 2	1699.8 lb/hr				8/15/13
MCT-135		Electric Ovens - Line 2	1699.8 lb/hr				8/15/13
MCT-136		Draw Die - Line 2	1699.8 lb/hr				8/15/13
MCT-137		Cooling Tank 2 - Line 2	1699.8 lb/hr				8/15/13
MCT-138		Puller - Line 2	1699.8 lb/hr				8/15/13
MCT-139		Saw - Line 2	1699.8 lb/hr	Fabric filter	M-4	Particulates	8/15/13
MCT-140		Offloader - Line 2	1699.8 lb/hr				8/15/13
MCT-141		Annealing	0.25 MMBtu/hr				8/15/13
MCT-142		On-loader	3400 lb/hr				8/15/13
MCT-143		End Trim	3400 lb/hr	Fabric filter	M-5	Particulates	8/15/13
MCT-144		Flame Treatment	0.6 MMBtu/hr				8/15/13
MCT-145		EP Spray Booth and Oven	1.2 gpm, 1.5 MMBtu/hr	Dry filter		Particulates	8/15/13
MCT-146		C+ Spray Booths (2) and Ovens (2)	1.2 gpm, 1.5 MMBtu/hr	Dry filter		Particulates	8/15/13
MCT-149		Space Heating	7 MMBtu/hr				8/15/13
MCT-150		Oriented Profile Grinder Surge Bin	30.4 lb/hr				8/15/13
MCT-151		Non Oriented Billet Grinder	30.4 lb/hr	Fabric filter		Particulates	8/15/13
MCT-152		Oriented profile grinder	30.4 lb/hr	Fabric filter		Particulates	8/15/13
<b>Emergency Generator</b>							
EG-001		Emergency diesel generator	350 kW				8/15/13
<b>Gasoline Tank</b>							
GT-001		Gasoline Tank – AREA MACT 6C	500 gallons				

\*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

## **FUEL BURNING EQUIPMENT – (3) 33.5 MMBtu/hr Boilers (B-1, B-2, B-3)**

### **LIMITATIONS**

1. **Fuel Burning Equipment Requirements - Limitations** - Emissions from the combustion of natural gas for the three NSPS boilers (B-1, B-2, B-3) shall not exceed the limits specified below:

PM10	0.01	lb/million Btu
Sulfur Dioxide	0.01	lb/million Btu
Nitrogen Oxides (as NO <sub>2</sub> )	0.1	lb/million Btu
Carbon Monoxide	0.1	lb/million Btu
VOC	0.0055	lb/million Btu

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 57.

(9VAC5-80-110 and Condition 36 of 8/15/13 permit document)

### **RECORDKEEPING**

2. **Fuel Burning Equipment Requirements – (emission units B1, B2, B3) Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
  - a. Monthly consumption of natural gas in each of the boilers subject to NSPS Dc (B-1, B-2, B-3), or alternate records if allowed by a NSPS Dc amendment or equivalent, or as approved in writing by EPA or DEQ.
  - b. Combined annual consumption of natural gas in the boilers subject to NSPS Dc (B-1, B-2, B-3), calculated monthly as the sum of each consecutive 12-month period.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110, Conditions 2 & 40 of 8/15/13 permit document and 40CFR60.48c(g))

Additional limitations, monitoring and recordkeeping requirements are stated in Facility Wide

Conditions 57, 58, 67 & 69 of this permit.

## **FUEL BURNING EQUIPMENT – Emergency Diesel Engine (EG-001)**

### **LIMITATIONS**

3. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations** – The approved fuel for the emergency diesel engine is diesel. A change in the fuel may require a permit to modify and operate.  
(9VAC5-80-110 and Condition 20 of 8/15/13 permit document)
4. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations** – The emergency diesel engine shall not operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12 month period.  
(9VAC5-80-110 and Condition 22 of 8/15/13 permit document)
5. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations** – Visible emissions from the emergency diesel engine exhaust stack shall not exceed 20% opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 30% opacity when the emergency diesel engine is operating. This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and 9VAC5-50-80)
6. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations** – MACT 4Z – The emergency diesel engine must meet the requirements of Table 2d(4) of 40CFR63 Subpart ZZZZ. Sources have the option to utilize an oil analysis program as described in § 63.6625(i) in order to extend the specified oil change requirement in Table 2d of MACT ZZZZ. If the emergency diesel engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d(4), or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.  
(9VAC5-80-110 and 40CFR63.6603)
7. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations** – MACT 4Z - The permittee must operate and maintain the emergency diesel engine and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether such operation and

maintenance procedures being used are sufficient to minimize emissions will be based on available information which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

(9VAC5-80-110, 40CFR63.6605(b), 40CFR63.6640(a) and 40CFR63.6625(e))

8. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations – MACT 4Z** - The permittee shall comply with the applicable requirements of 40CFR63 Subpart A as shown in Table 8 of 40CFR63 Subpart ZZZZ.  
(9VAC5-80-110 and 40CFR63.6665)
9. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations – MACT 4Z** - The emergency diesel engine shall be operated in accordance with 40CFR63.6640(f). Operation not in accordance with 40CFR63.6640(f) shall make the engine subject to the non-emergency requirements. Operation for non-emergency purposes may require a permit to modify and operate pursuant to 9VAC5-80 Article 6.  
(9VAC5-80-110 and 40CFR63.6640(f))
10. **Fuel Burning Equipment Requirements – (emission unit EG-001) Limitations – MACT 4Z** - The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.  
(9VAC5-80-110 and 40CFR63.6625(h))

## MONITORING

11. **Fuel Burning Equipment Requirements – (emission unit EG-001) Monitoring – MACT 4Z** - The emergency diesel engine shall be equipped with a non-resettable hour meter. The reason for operation and length of time operated shall be recorded.  
(9VAC5-80-110, 40CFR63.6655(f) and 40CFR63.6625(f))
12. **Fuel Burning Equipment Requirements – (emission unit EG-001) Monitoring – At least one time in any month the emergency diesel engine operates an observation of the presence of visible emissions from the emergency diesel engine stack shall be made. The presence of visible emissions shall require the permittee to:**
  - a. take timely corrective action such that the engine resumes operation with no visible emissions, or,
  - b. conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40CFR60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the affected area are 20 percent opacity or less. If any of the 15-second observations exceeds 20 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE,

timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 20 percent opacity.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, the results of all VEEs, any necessary corrective action, and the name of the observer. If the engine has not been operated for any period during the month, it shall be noted in the observation log.

(9VAC5-80-110)

## **RECORDKEEPING**

### **13. Fuel Burning Equipment Requirements – (emission unit EG-001) Recordkeeping –**

The permittee shall obtain a certification from the fuel supplier with each shipment of diesel. Each fuel supplier certification shall include the following:

- a. The name of fuel supplier
- b. The date on which the fuel was received;
- c. The quantity of fuel delivered in the shipment
- d. A statement that the fuel complies with the ASTM D975 specification for Grades 1 or 2;
- e. The maximum sulfur content of the fuel;

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110 and 9VAC5-50-50)

### **14. Fuel Burning Equipment Requirements – (emission unit EG-001) Recordkeeping –**

The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. A copy of each notification and report submitted to comply with 40CFR63 Subparts A and ZZZZ.
- b. Records of the occurrence and duration of each malfunction of the emergency diesel engine or any air pollution control and monitoring equipment.
- c. Records of all required maintenance performed on the air pollution control and monitoring equipment.

- d. Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the malfunctioning engine and air pollution control and monitoring equipment to its normal or usual manner of operation.
- e. If the oil analysis program described in 40CFR63.6625(i) is implemented, the permittee must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine.
- f. Records of the reason and hours of operation for the emergency engine.
- g. Annual hours of operation of the emergency diesel engine calculated monthly as the sum of each consecutive 12-month period to verify compliance with the operation limitation in Condition 4. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110, 9VAC5-50-50, Condition 40 of 8/15/13, 40CFR63.6625(i) and 40CFR63.6655)

Additional monitoring requirements are stated in Facility Wide Condition 67 of this permit.

## **PROCESS EQUIPMENT REQUIREMENTS – Raw Material Handling and Silica Sand Handling (RMH-1, RMS-1)**

### **LIMITATIONS**

- 15. **Process Equipment Requirements - (emission units RMC-001, RMA1-001, RMA2-002) - Limitations** - Particulate emissions from the main storage silos (cement, Additive 1, Additive 2) shall be controlled by fabric filter. The particulate emission controls shall be provided with adequate access for inspection and shall be in operation when the process is operating.  
(9VAC5-80-110 and Condition 3 of 8/15/13 permit document)
- 16. **Process Equipment Requirements - (emission units RMC-101, RMC-201, RMA1-101, RMA2-101, RMA2-201,) - Limitations** - Particulate emissions from the day bins (cement, Additive 1, Additive 2) shall be controlled by fabric filter vented inside the building. The particulate emission controls shall be provided with adequate access for inspection and shall be in operation when the process is operating.  
(9VAC5-80-110 and Condition 4 of 8/15/13 permit document)
- 17. **Process Equipment Requirements - (emission units RMC-102, RMC-202, RMA1-102, RMA1-201, RMA2-102, RMA2-202) - Limitations** - Particulate emissions from the batch



vessels shall be controlled by bin vent filters or equivalent vented inside the building. The particulate emission controls shall be provided with adequate access for inspection and shall be in operation when the process is operating.  
(9VAC5-80-110 and Condition 5 of 8/15/13 permit document)

18. **Process Equipment Requirements - (emission unit RMS-1) - Limitations** - Particulate emissions from sand handling conveyors shall be controlled by covered conveyor.  
(9VAC5-80-110 and Condition 6 of 8/15/13 permit document)
19. **Process Equipment Requirements - (emission units RMS-1, RMH-1) - Limitations** - Particulate emissions from sand unloading and raw material spills shall be controlled by wet suppression or equivalent as necessary to maintain no visible emissions.  
(9VAC5-80-110 and Condition 7 of 8/15/13 of permit document)
20. **Process Equipment Requirements - (emission unit RMS-1) - Limitations** - There shall be no visible emissions from silica sand raw material receiving through storage, handling, and processing until the silica is bound with cement. This includes silica raw material (such as damp sand) truck or railcar unloading, conveying, storage, handling, and any processes such as ball milling until the silica is bound with cement. This condition applies at all times except during startup, shutdown, and malfunction. For equipment vented internally to a building, Condition 61 applies.  
(9VAC5-80-110, Conditions 2 & 38 of 8/15/13 permit document and 40CFR60.672(b))
21. **Process Equipment Requirements - (emission unit RMA3-001) - Limitations** - The Additive 3 Production Facility shall be a closed vent system. The requirement for a closed vent system shall be met if the process generates no emissions, except for breathing and working losses from the ethanol storage tank and emissions from truck and/or railcar loadout.  
(9VAC5-80-110 and Condition 11 of 8/15/13 permit document)
22. **Process Equipment Requirements - (emission unit RMA3-001) - Limitations** - The amount of ethanol shipped off-site shall not exceed 328,500 gallons, calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 24 of 8/15/13 permit document)

## **RECORDKEEPING**

23. **Process Equipment Requirements - (emission unit RMA3-001) - Recordkeeping** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to annual amount of ethanol shipped off-site, calculated monthly as the sum of each consecutive 12-month period to verify compliance with the operation limitation in Condition 22. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the

individual monthly totals for the preceding 11 months. These records shall be available for inspection by the DEQ and shall be current for the most recent five years.  
(9VAC5-80-110 and Condition 40 of 8/15/13 permit document)

Additional limitations, monitoring and recordkeeping requirements are stated in Facility Wide Conditions 59, 60, 61, 62, 64, 65, 66, 67, 68 & 69 of this permit.

## **PROCESS EQUIPMENT REQUIREMENTS – Production Lines 1 & 2 (PL-1, PL-2)**

### **LIMITATIONS**

24. **Process Equipment Requirements - (emission units PL-1, PL-2) - Limitations** -The production of panels and planks on Production Lines 1 and 2 combined shall not exceed 683,280 tons/yr net dry weight product, calculated monthly as the sum of each consecutive 12-month period.  
(9VAC5-80-110 and Condition 23 of 8/15/13 permit document)

25. **Process Equipment Requirements - (emission units PL-1, PL-2) - Limitations** - Emissions from the application of Non-stick EPS on Production Lines 1 and 2 combined shall not exceed the limits specified below:

VOC	0.8 tons/yr
-----	-------------

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 27.  
(9VAC5-80-110 and Condition 31 of 8/15/13 permit document)

26. **Process Equipment Requirements - (emission unit PL-1, PL-2) - Limitations** - Emissions from usage of IPA shall not exceed the limits specified below:

VOC	2.2 tons/yr
-----	-------------

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 27.  
(9VAC5-80-110 and Condition 33 of 8/15/13 permit document)

### **RECORDKEEPING**

27. **Process Equipment Requirements - (emission units PL-1, PL-2) - Recordkeeping** -The permittee shall maintain records of emission data and operating parameters as necessary to

demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Annual production of net dry weight of product in tons of panels and planks for Production Lines 1 and 2 combined calculated monthly as the sum of each consecutive 12-month period to verify compliance with the ton/yr emissions limitation of Condition 24. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months
- b. A monthly and annual material balance of VOC (in tons) from the non-stick EPS process area and the cutting sleeves changing area (to cut uncured sheets) calculated monthly as the sum of each consecutive 12-month period to verify compliance with the ton/yr emissions limitations of Conditions 25 and 26. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110 and Condition 40 of 8/15/13 permit document)

Additional limitations and monitoring requirements are stated in Facility Wide Conditions 63 & 67 of this permit.

## **PROCESS EQUIPMENT REQUIREMENTS – Finishing lines 1 & 2 (FL-1, FL-2), Color Plus Lines 1 & 2 (CPL-1, CPL-2), Heritage Line (HL-1), and MCT Line 1 & 2 (MCT-1, MCT-2)**

### **LIMITATIONS**

28. **Process Equipment Requirements - (emission units CP-1, CP-2, HL-1, MCT-1, MCT-2) - Limitations** -Particulate emissions from coating applications (on lines CP-1, CP-2, HL-1, MCT-1 and MCT-2) shall be controlled by a dry filter, roll coater application, or curtain coater application. The dry filters shall be provided with adequate access for inspection and shall be in operation when the coating application is operating.  
(9VAC5-80-110 and Condition 13 of 8/15/13 permit document)
29. **Process Equipment Requirements - (emission units MCT-101, MCT-113, MCT-130) - Limitations** -Particulate emissions from the CaCO<sub>3</sub> silo and CaCO<sub>3</sub> hoppers shall be controlled by bin vent filter. The particulate emission controls shall be provided with adequate access for inspection and shall be in operation when the process is operating.  
(9VAC5-80-110 and Condition 8 of 8/15/13 permit document)

30. **Process Equipment Requirements - (emission units MCT-107, MCT-112, MCT-113, MCT-114, MCT-115, MCT-124, MCT-129, MCT-130, MCT-131, MCT-132, MCT-151, MCT-152) - Limitations** -Particulate emissions from the profile and billet regrind hopper/feeders, CaCO<sub>3</sub> feeders, the extruders, and the grinders shall be controlled by fabric filter. The particulate emission controls shall be provided with adequate access for inspection and shall be in operation when the process is operating.  
(9VAC5-80-110 and Condition 9 of 8/15/13 permit document)
31. **Process Equipment Requirements - (emission units MCT-1, MCT-2) - Limitations** - Particulate emissions from MCT line raw material handling equipment not specified in Conditions 29 or 30 shall be vented inside the building.  
(9VAC5-80-110 and Condition 10 of 8/15/13 permit document)
32. **Process Equipment Requirements - (emission unit HL-110) - Limitations** -Particulate emissions from the Heritage Line sawing shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the dust collection system for the saw is operating.  
(9VAC5-80-110 and Condition 14 of 8/15/13 permit document)
33. **Process Equipment Requirements - (emission unit HL-1) - Limitations** -The board throughput on the Heritage Line shall not exceed 152,000,000 ft<sup>2</sup>, calculated monthly as the sum of each consecutive 12-month period. This throughput is part of the permitted allowable facility production limit contained in Condition 24.  
(9VAC5-80-110 and Condition 26 of 8/15/13 permit document)
34. **Process Equipment Requirements - (emission units MCT-1, MCT-2, CP-1, CP-2, HL-1) - Limitations** -Emissions from the spray coating application (MCT Lines 1 and 2, Color Plus Lines 1 and 2, and Heritage line) shall not exceed the limits specified below:
- |       |                 |
|-------|-----------------|
| PM10  | 0.05 grain/dscf |
| PM2.5 | 0.05 grain/dscf |
- (9VAC5-80-110 and Condition 29 of 8/15/13 permit document)
35. **Process Equipment Requirements - (emission unit HL-102) - Limitations** -Emissions from the Heritage Line wet cutting station shall not exceed the limits specified below:
- |       |            |
|-------|------------|
| PM10  | 1.8 lbs/hr |
| PM2.5 | 1.8 lbs/hr |
- (9VAC5-80-110 and Condition 30 of 8/15/13 permit document)

36. **Process Equipment Requirements - (emission units FL-1, FL-2, CPL-1, CPL-2, HL-1) - Limitations** -Emissions from the application of coating release agent (Frekote) at the facility combined shall not exceed the limits specified below:

VOC 2.3 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 50.  
(9VAC5-80-110 and Condition 32 of 8/15/13 permit document)

37. **Process Equipment Requirements - (emission units MCT-1, MCT-2, CPL-1, CPL-2, HL-1) - Limitations** -Emissions from coating (MCT Lines 1 and 2, Color Plus lines 1 and 2, and Heritage Line combined) shall not exceed the limits specified below:

VOC 0.16 lb<sub>VOC</sub> / gallon<sub>coating as applied</sub> 161.3 tons/yr

The emissions limits in this condition do not include ink jet printing and cleaning materials. These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 50.  
(9VAC5-80-110 and Condition 34 of 8/15/13 permit document)

38. **Process Equipment Requirements - - Limitations** -Emissions from all ink jet printing and cleaning materials facility-wide (CPL-109, CPL-209, HL-109), shall not exceed the limits specified below:

VOC 2.4 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition 50.  
(9VAC5-80-110 and Condition 35 of 8/15/13 permit document)

## MONITORING

39. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - The permittee shall implement a Compliance Assurance Monitoring (CAM) Plan to monitor the Heritage Saw Room fabric filter (BH-5) controlling PM10 from the Heritage Line Saw in accordance with the following table. Each monitor shall be operated according to manufacturer's specifications, unless other methods are approved, and in compliance with 40CFR64.3(b) or (d).

	Indicator 1	Indicator 2
<b>Indicator</b>	Broken Bag Detector	Pressure drop
Measurement Approach	Triboelectric measurement	Magnehelic gauge
<b>Indicator Range</b>	Alarm point based on manufacturer's specifications. Continuous monitoring is performed with an alarm time delay that is activated if the established baseline particle loading is exceeded for more than 15 consecutive seconds. Each activated alarm is a single excursion.	3-5 inches of water. Any observed pressure drop not within this range is a single excursion.
<b>Performance Criteria</b>		
Data Representativeness	Normal particle loading of a properly operating fabric filter is continuously detected, and an increase of particle loading lasting longer than 15 seconds triggers the Broken Bag Detector alarm.	Pressure drop is measured with a pressure gauge of appropriate range across the baghouse.
Verification of Operational Status	The Broken Bag Detector has been installed and calibrated according to manufacturer's recommendations and is currently operating.	The Magnehelic gauge has been installed and calibrated according to manufacturer's recommendations and is currently operating.
QA/QC Practices and Criteria	Implement manufacturer's recommended preventive maintenance and calibration practices including bench top calibration and dust loading calibration.	Maintain and calibrate in accordance with manufacturer's specifications.
Monitoring Frequency	Continuous	One instantaneous observation per day
Data Collection Procedures	Computerized data acquisition system	Manual
Averaging Period	None	None

Changes pertaining to the information in this condition shall not be implemented prior to approval by the DEQ. Changes may require public participation according to the requirements of 9VAC5-80-230.

(9VAC 5-80-110 E and 40CFR64.6(c))

40. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - The permittee shall conduct the monitoring and fulfill the other obligations specified in 40CFR64.7 through 40CFR64.9.  
(9VAC5-80-110 E and 40CFR64.6(c))
41. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - At all times, the permittee shall maintain the monitoring equipment, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
(9VAC5-80-110 E and 40CFR64.7(b))
42. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the Heritage Line Saw is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of compliance assurance monitoring, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by inadequate maintenance or improper operation are not malfunctions.  
(9VAC5-80-110 E and 40CFR64.7(c))
43. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - Upon detecting an excursion or exceedance, the permittee shall restore operation of the Heritage Line Saw (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup and shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator, designated condition, or below the applicable emission limitation or standard, as applicable.  
(9VAC5-80-110 E and 40CFR64.7(d)(1))

44. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - Determination that acceptable procedures were used in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. (9VAC5-80-110 E and 40CFR64.7(d)(2))
45. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - If the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly (in accordance with Condition 83) notify the Blue Ridge Regional Office and submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters. (9VAC5-80-110 E, 40CFR64.7(e) and 40CFR64.6(c))
46. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - If exceedances or excursions of the Heritage Line Saw occur more than 15 times during any semiannual reporting period (as established in Condition 81) or as otherwise required by the DEQ in accordance with review conducted under 40CFR64.7(d)(2), the permittee shall develop, implement and maintain a Quality Improvement Plan (QIP) in accordance with 40CFR64.8. If a QIP is required, the permittee shall have it available for inspection at the permitted facility. (9VAC5-80-110 E and 40CFR64.8(a) and (b))
47. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - Monitoring imposed under 40CFR Part 64 shall not excuse the permittee from complying with any existing requirements under federal, state, or local law, or any other applicable requirement under the Act, as described in 40CFR64.10. (9VAC5-80-110 and 40CFR64.10)
48. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan (QIP) required pursuant to 40CFR64.8 and any activities undertaken to implement a quality improvement plan (QIP), and other supporting information required to be maintained under 40CFR Part 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). (9VAC5-80-110 F and 40CFR64.9(b))



49. **Process Equipment Requirements - (emission unit HL-110) - Compliance Assurance Monitoring (CAM)** - The permittee shall submit CAM reports as part of the Title V semi-annual monitoring reports required by Condition 81 of this permit to the Blue Ridge Regional Office. Such reports shall include at a minimum:
- a. Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
  - b. Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
  - c. A description of the actions taken to implement a quality improvement plan (QIP) during the reporting period as specified in 40CFR64.8. Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(9VAC5-80-110 F and 40CFR64.9(a))

## **RECORDKEEPING**

50. **Process Equipment Requirements - (emission units FL-1, FL-2, CPL-1, CPL-2, HL-1, MCT-1, MCT-2) - Recordkeeping** -The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:
- a. Annual throughput of boards (in square feet) through the Heritage Line, calculated monthly as the sum of each consecutive 12-month period to verify compliance with the throughput limitation in Condition 33. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
  - b. A monthly and annual material balance (i.e., all VOC in the material used is assumed emitted) of VOC (in tons) from each of the following process areas: roll coating release; changing the cutting sleeves (to cut uncured sheets); applying finishing fungicide or coating; Color Plus, Heritage, and MCT coating; all ink jet printing and cleaning materials; calculated monthly as the sum of each consecutive 12-month period to verify compliance with the ton/yr emissions limitations in Conditions 36 through 38. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

- c. Material Safety Data Sheets (MSDS), Certified Product Data Sheets (CPDS) or other approved vendor information showing VOC content and hazardous air pollutant content for each coating, ink, thinning and cleaning solution used.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110 and Condition 40 of 8/15/13 permit document)

- 51. The permittee shall furnish written notification to the Blue Ridge Regional Office of:
  - a. The actual date on which construction of the MCT Lines commenced within 30 days after such date.
  - b. The actual start-up date of the MCT Lines within 15 days after such date.

(9VAC5-80-110 and Condition 41 of 8/15/13 permit document)

Additional limitations, monitoring and recordkeeping requirements are stated in Facility Wide Conditions 59, 60, 61, 63, 64, 65, 66, 67, 68 & 69 of this permit.

## **PROCESS EQUIPMENT REQUIREMENTS – Soffit Line (SL-1)**

### **LIMITATIONS**

- 52. **Process Equipment Requirements - (emission unit SL-1) – Limitations -** The throughput of soffit boards shall not exceed 9,460,800 punched soffit boards per year (151,448,466 ft<sup>2</sup>), calculated monthly as the sum of each consecutive 12-month period. This throughput is part of the permitted allowable facility production limit contained in Condition 24.  
(9VAC5-80-110 and Condition 25 of 8/15/13 permit document)
- 53. **Process Equipment Requirements - (emission unit SL-102) – Limitations -** Particulate emissions from the Hydraulic Press shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the Hydraulic Press is operating.  
(9VAC5-80-110 and Condition 12 of 8/15/13 permit document)

### **RECORDKEEPING**

- 54. **Process Equipment Requirements - (emission unit SL-1) – Recordkeeping -** The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to annual throughput of soffit boards through the Soffit Line, calculated monthly as

the sum of each consecutive 12-month period to verify compliance with the throughput limitation in Condition 52. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. These records shall be available for inspection by the DEQ and shall be current for the most recent five years. (9VAC5-80-110 and Condition 40 of 8/15/13 permit document)

Additional limitations, monitoring and recordkeeping requirements are stated in Facility Wide Conditions 59, 60, 64, 65, 66 & 69 of this permit.

## **PROCESS EQUIPMENT REQUIREMENTS – Gasoline Tank (GT-001)**

### **LIMITATIONS**

55. **Process Equipment Requirements – (emission unit GT-001) – Limitations** - The permittee shall comply with 40CFR63.11115(a) and 40CFR63.11116. (9VAC5-80-110 and 40CFR63 Subpart CCCCCC)

### **RECORDKEEPING**

56. **Process Equipment Requirements - (emission unit GT-001) – Recordkeeping** – The permittee shall maintain records to demonstrate compliance with Condition 55 of this permit. The records shall include, but are not limited to:

- a. Fuel throughput total in gallons on a monthly basis.

These records shall be made available for inspection by the DEQ within 24 hours of a request by the DEQ. (9VAC5-80-110 and 40CFR63 Subpart CCCCCC)

Additional limitation and monitoring requirements are stated in Facility Wide Conditions 63 and 67 of this permit.

## **FACILITY WIDE CONDITIONS**

### **LIMITATIONS**

57. **Facility Wide Conditions - Limitations** - The approved fuel for the facility, except for the emergency diesel engine, is natural gas. A change in the fuel may require a permit to modify and operate. (9VAC5-80-110 and Condition 19 of 8/15/13 permit document)
58. **Facility Wide Conditions - Limitations** - The amount of natural gas consumed by the facility, except the Heritage Line and MCT Line combustion units, shall not exceed 1,500

million cubic feet per year, calculated monthly as the sum of each consecutive 12-month period.

(9VAC5-80-110 and Condition 21 of 8/15/13 permit document)

59. **Facility Wide Conditions - Limitations** - Particulate emissions from fabric filter exhausting to the ambient air and bin vent filters required by Condition 29 shall not exceed the limits specified below:

PM/PM10                      0.01 grain/dscf

(9VAC5-80-110 and Condition 28 of 8/15/13 permit document)

60. **Facility Wide Conditions - Limitations** - Visible emissions from each fabric filter and bin vent filters required by Condition 29 shall not exceed 5 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 10 percent opacity as determined by EPA Method 9 (reference 40CFR60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.  
(9VAC5-80-110 and Condition 37 of 8/15/13 permit document)

61. **Facility Wide Conditions - Limitations** - There shall be no visible emissions from any process building. This condition does not include process exhaust vents/stacks with separate visible emission limits in this permit. This condition does not apply to emissions of uncombined water (steam, fog).  
(9VAC5-80-110 and Condition 39 of 8/15/13 permit document)

62. **Facility Wide Conditions - Limitations** - Fugitive dust and fugitive emission controls shall include the following, or equivalent, as approved by DEQ:
- a. Use of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, grading of roads, or clearing of land.
  - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; paving of roadways, and maintenance of roadways in a clean condition.
  - c. Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.
  - d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. These measures shall include paving the entrance road to the facility. Trucks leaving the site shall have clean wheels; achieved by use of a wheel washer or equivalent, if necessary. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9VAC5- 80-110 and Condition 15 of 8/15/13 permit document)

63. **Facility Wide Conditions - Limitations** - At all times the disposal of volatile organic compounds shall be accomplished by taking measures, to the extent practicable, consistent with air pollution control practices for minimizing emissions. Volatile organic compounds shall not be intentionally spilled, discarded in sewers, or stored in open containers, or handled in any other manner that would result in evaporation beyond that consistent with air pollution practices for minimizing emissions.  
(9VAC5-80-110 and Condition 16 of 8/15/13 permit document)

## MONITORING

64. **Facility Wide Conditions - Monitoring** - Each fabric filter required in Conditions 15, 30, 32 and 53 shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the process is operating.  
(9VAC5-80-110 and Condition 17 of 8/15/13 permit document)
65. **Facility Wide Conditions – Monitoring** - To ensure good performance, the differential pressure drop across the fabric filters required in Condition 64 shall be observed weekly. The permittee shall keep a log of the observations.  
(9VAC5-80-110, 9VAC5-50-50 and Condition 18 of 8/15/13 permit document)
66. **Facility Wide Conditions – Monitoring** - At least one time per month an observation of the presence of visible emissions from each fabric filter exhausting to the ambient air and bin vent filters required by Condition 29 shall be made. The presence of visible emissions shall require the permittee to:
- a. take timely corrective action such that the unit resumes operation with no visible emissions, or,
  - b. conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40CFR60, Appendix A) for a minimum of six (6) minutes, to assure visible emissions from the affected area are 5 percent opacity or less. If any of the 15-second observations exceeds 5 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 5 percent opacity.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions,

the results of all VEEs, any necessary corrective action, and the name of the observer. If a fabric filter was not operated for any period during the month, it shall be noted in the log book.

(9VAC5-80-110)

**67. Facility Wide Conditions – Monitoring – Maintenance/Operating Procedures –**

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- c. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-80-110)

- 68. Facility Wide Conditions – Monitoring -** At least one time per month an observation of the presence of visible emissions from each process building and the equipment in Condition 20 shall be made. The presence of visible emissions shall require the permittee to take timely corrective action such that no visible emissions occur. The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions, any necessary corrective action, and the name of the observer. If a unit was not operated for any period during the month, it shall be noted in the log book.

(9VAC5-80-110)

## **RECORDKEEPING**

- 69. Facility Wide Conditions – Recordkeeping -** The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

- a. Combined annual consumption of natural gas in the total facility, calculated monthly as the sum of each consecutive 12-month period.

b. Monitoring device observations logs

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9VAC5-80-110 and Condition 40 of 8/15/13 permit document)

## INSIGNIFICANT EMISSIONS UNITS

70. **Insignificant Emission Units** - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

<b>Emission Unit No.</b>	<b>Emission Unit Description</b>	<b>Citation</b>	<b>Pollutant(s) Emitted (9 VAC 5-80-720B)</b>	<b>Rated Capacity (9 VAC 5-80-720C)</b>
N/A	(3) Small Safety Kleen parts washers	9VAC5-80-720B.2	VOC	
N/A	(2) Diesel Tanks	9VAC5-80-720 B.2	VOC	
	Boiler No. 4	9VAC5-80-720C.2		2.0 MMBtu/hr, using natural gas

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110.

## PERMIT SHIELD & INAPPLICABLE REQUIREMENTS

71. **Permit Shield & Inapplicable Requirements** - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

<b>Citation</b>	<b>Title of Citation</b>	<b>Description of Applicability</b>
None Identified	None Identified	None Identified

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution

Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.  
(9VAC5-80-140)

## GENERAL CONDITIONS

72. **Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.  
(9VAC5-80-110 N)
73. **Permit Expiration** - This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.  
(9VAC5-80-80 B, C, & F, 9VAC5-80-110 D and 9VAC5-80-170 B)
74. **Permit Expiration** - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.  
(9VAC5-80-80 B, C, & F, 9VAC5-80-110 D and 9VAC5-80-170 B)
75. **Permit Expiration** - If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.  
(9VAC5-80-80 B, C, & F, 9VAC5-80-110 D and 9VAC5-80-170 B)
76. **Permit Expiration** - No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.  
(9VAC5-80-80 B, C, & F, 9VAC5-80-110 D and 9VAC5-80-170 B)
77. **Permit Expiration** - If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.  
(9VAC5-80-80 B, C, & F, 9VAC5-80-110 D and 9VAC5-80-170 B)



78. **Permit Expiration** - The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.  
(9VAC5-80-80 B, C, & F, 9VAC5-80-110 D and 9VAC5-80-170 B)

79. **Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9VAC5-80-110 F)

80. **Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.  
(9VAC5-80-110 F)

81. **Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
- b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
  - i. Exceedance of emissions limitations or operational restrictions;

- ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
  - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9VAC5-80-110 F)

82. **Annual Compliance Certification** - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
- b. The identification of each term or condition of the permit that is the basis of the certification;
- c. The compliance status;
- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and

- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3\_APD\_Permits@epa.gov

(9VAC5-80-110 K.5)

83. **Permit Deviation Reporting** - The permittee shall notify the Blue Ridge Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 81 of this permit.  
(9VAC5-80-110 F.2 and 9VAC5-80-250)
84. **Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no later than four daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office.  
(9VAC5-20-180 C)
85. **Failure/Malfunction Reporting** - The emission units that have continuous monitors subject to 9VAC5-40-50 C and 9VAC5-50-50 C are not subject to the 14 day written notification.  
(9VAC5-20-180 C)
86. **Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.  
(9VAC5-80-110 G.1)
87. **Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the

Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.  
(9VAC5-80-110 G.2)

88. **Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.  
(9VAC5-80-110 G.3)
89. **Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.  
(9VAC5-80-190 and 9VAC5-80-260)
90. **Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.  
(9VAC5-80-110 G.5)
91. **Duty to Submit Information** - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.  
(9VAC5-80-110 G.6)
92. **Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.  
(9VAC5-80-110 K.1)
93. **Duty to Pay Permit Fees** - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9VAC5-80-2340, adjusted annually by the change in the Consumer Price Index.

(9VAC5-80-110 H, 9VAC5-80-340 C and 9VAC5-80-2340 B)

94. **Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.  
(9VAC5-50-20 E)
95. **Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.  
(9VAC5-80-110 J)
96. **Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
  - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
  - d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110 K.2)

97. **Reopening For Cause** - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the

original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110 L)

98. **Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.  
(9VAC5-80-150 E)
99. **Transfer of Permits** - No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.  
(9VAC5-80-160)
100. **Transfer of Permits** - In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.  
(9VAC5-80-160)
101. **Transfer of Permits** - In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.  
(9VAC5-80-160)
102. **Malfunction as an Affirmative Defense** - A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements stated in Condition 103 are met.  
(9VAC5-80-250)

103. **Malfunction as an Affirmative Defense** - The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:

- a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
- b. The permitted facility was at the time being properly operated.
- c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
- d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9VAC5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9VAC5-20-180 C.

(9VAC5-80-250)

104. **Malfunction as an Affirmative Defense** - In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.  
(9VAC5-80-250)

105. **Malfunction as an Affirmative Defense** - The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.  
(9VAC5-80-250)

106. **Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.  
(9VAC5-80-190 C and 9VAC5-80-260)

107. **Duty to Supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.  
(9VAC5-80-80 E)
108. **Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40CFR Part 82, Subparts A to F.  
(40CFR Part 82, Subparts A-F)
109. **Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40CFR61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40CFR61.145), Standards for Insulating Materials (40CFR61.148), and Standards for Waste Disposal (40CFR61.150).  
(9VAC5-60-70 and 9VAC5-80-110 A.1)
110. **Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40CFR68.115, the permittee shall comply with the requirements of 40CFR Part 68.  
(40CFR Part 68)
111. **Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.  
(9VAC5-80-110 I)
112. **Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
  - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
  - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.  
(9VAC5-80-110 I)